

AMENDMENTS TO THE CLAIMS

Please **AMEND** claims 250, 252, 257, 262, 264-265, 268, 272, 274, 277-279, 282, 287, 289-290, 293, 297, 299, 301, 306, 311, 313-314, 317, and 321 as shown below.

Please **CANCEL** claims 255-256, 266-267, 276, 280-281, 291-292, 304-305, and 315-316 without prejudice or disclaimer.

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-249. (Cancelled)

250. (Currently Amended) A method for interfacing among a terminal, a radio network and a core network connected to the radio network, ~~wherein the terminal has a hybrid operating type being possible to be set as either a synchronous operating type or an asynchronous operating type,~~ the method comprising the steps of:

a) recognizing an operating type of the core network on the basis of a ~~core network operating type information and core network information contained in a message comprising an~~ information element identifying the operating type of the core network, to thereby allow the terminal to operate according to the recognized operating type of the core network, wherein the operating type of the core network comprises global system for mobile communications application part (GSM-MAP) or ANSI-41.

251. (Previously Presented) The method as recited in claim 250, after the step a), further comprising the step b) of storing the recognized operating type of the core network.

252. (Currently Amended) The method as recited in claim 250, wherein the step a) includes the steps of:

a1) receiving the message ~~having the core network operating type information~~ through a predetermined channel;

a2) extracting ~~[[the]]~~ core network operating type information from the received message; and

a3) setting an operating type of the terminal ~~to the synchronous operating type or the asynchronous operating type~~ on the basis of the recognized operating type of the core network.

253. (Previously Presented) The method as recited in claim 252, wherein the predetermined channel is a synchronous channel.

254. (Previously Presented) The method as recited in claim 252, wherein the predetermined channel is a broadcast control channel.

255-256. (Canceled)

257. (Currently Amended) The method as recited in claim 250, wherein the operating type of the core network comprises GSM-MAP AND ANSI-41 ~~the core network operating type information includes an ANSI-41 information representing a synchronous operating type core network and a global system for mobile communications application part (GSM-MAP) information representing an asynchronous operating type core network.~~

258. (Previously Presented) The method as recited in claim 250, wherein the message includes a master information block.

259. (Previously Presented) The method as recited in claim 250, wherein the message includes a system information message.

260. (Previously Presented) The method as recited in claim 250, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1 . . . <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

261. (Previously Presented) The method as recited in claim 250, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			

REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1... <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

262. (Currently Amended) An apparatus for interfacing among a terminal, a radio network and a core network connected to the radio network, ~~wherein the terminal has a hybrid operating type being possible to be set as either a synchronous operating type or an asynchronous operating type, the apparatus comprising:~~

detection means for recognizing an operating type of the core network on the basis of a ~~core network operating type information and core network information in a message comprising~~ an information element identifying the operating type of the core network; and

setting means for setting an operating type of the terminal ~~to one of the synchronous operating type and the asynchronous operating type~~ on the basis of the recognized operating type of the core network,

wherein the operating type of the core network comprises global system for mobile communications application part (GSM-MAP) or ANSI-41.

263. (Previously Presented) The apparatus as recited in claim 262, further comprising a storage device for storing the recognized operating type of the core network.

264. (Currently Amended) The apparatus as recited in claim 262, wherein the detection means includes:

receiver means for receiving the message ~~having the core network operating type~~ information through a predetermined channel; and

extraction means for extracting ~~[[the]]~~ core network operating type information from the received message.

265. (Currently Amended) The apparatus as recited in claim 264, wherein the predetermined channel is a synchronization channel if the radio network is ~~of the~~ synchronous operating type; and the predetermined channel is a broadcast control channel if the radio network is ~~of the~~ asynchronous operating type.

266-267. (Canceled)

268. (Currently Amended) The apparatus as recited in claim 262, wherein the operating type of the core network comprises GSM-MAP AND ANSI-41 ~~the core network operating type~~ information includes an ~~ANSI-41 information representing a synchronous operating type core network and a global system for mobile communications application part (GSM-MAP) information representing an asynchronous operating type core network.~~

269. (Previously Presented) The apparatus as recited in claim 262, wherein the message includes a master information block.

270. (Previously Presented) The apparatus as recited in claim 262, wherein the message includes a system information message.

271. (Previously Presented) The apparatus as recited in claim 262, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1 . . . <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

272. (Currently Amended) The apparatus as recited in claim 271, wherein the message includes a public land mobile network identification (PLMN ID) if the radio network is the asynchronous operating type and the core network operating type information is GSM-MAP information representing an asynchronous type core network.

273. (Previously Presented) The apparatus as recited in claim 262, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1... <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

274. (Currently Amended) A method for interfacing among a terminal, a radio network and a core network connected to the radio network, the method comprising the steps of:

a) recognizing an operating type of the core network on the basis of a ~~core network operating type information and core network information contained in a message comprising an~~ information element identifying the operating type of the core network, to thereby allow the terminal to operate according to the recognized operating type of the core network,
wherein the operating type of the core network comprises global system for mobile communications application part (GSM-MAP) or ANSI-41, and
wherein the step a) includes the steps of:

a1) receiving the message in a predetermined location through a predetermined channel;
a2) extracting core network operating type information from the received message; and
a3) setting an operating type of the terminal on the basis of the recognized operating
type of the core network.

275. (Previously Presented) The method as recited in claim 274, after the step a), further comprising the step b) of storing the recognized operating type of the core network.

276. (Canceled)

277. (Currently Amended) The method as recited in claim 274 ~~[[276]]~~, wherein the predetermined location is a core network type information field of a synchronous channel message.

278. (Currently Amended) The method as recited in claim 274 ~~[[276]]~~, wherein the predetermined channel is a synchronous channel.

279. (Currently Amended) The method as recited in claim 274 ~~[[276]]~~, wherein the predetermined channel is a broadcast control channel.

280-281. (Canceled)

282. (Currently Amended) The method as recited in claim 274, wherein the operating type of the core network comprises GSM-MAP AND ANSI-41 ~~the core network operating type information includes an ANSI-41 information representing a synchronous operating type core~~

~~network and a global system for mobile communications application part (GSM-MAP)
 information representing an asynchronous operating type core network.~~

283. (Previously Presented) The method as recited in claim 274, wherein the message includes a master information block.

284. (Previously Presented) The method as recited in claim 274, wherein the message includes a system information message.

285. (Previously Presented) The method as recited in claim 274, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1 . . . <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

286. (Previously Presented) The method as recited in claim 274, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1... <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

287. (Currently Amended) An apparatus for interfacing among a terminal, a radio network and a core network connected to the radio network, comprising:

detection means for recognizing an operating type of the core network on the basis of an information element identifying the operating type of the core network ~~a core network operating type information and core network information~~; and

setting means for setting an operating type of the terminal on the basis of the recognized operating type of the core network_x

wherein the operating type of the core network comprises global system for mobile communications application part (GSM-MAP) or ANSI-41.

288. (Previously Presented) The apparatus as recited in claim 287, further comprising a storage device for storing the recognized operating type of the core network.

289. (Currently Amended) The apparatus as recited in claim 287, wherein the detection means includes:

receiver means for receiving a message comprising the information element identifying the operating type of the core network ~~having the core network operating type information and core network information~~ through a predetermined channel; and

extraction means for extracting [[the]] core network operating type information from the received message.

290. (Currently Amended) The apparatus as recited in claim 289, wherein the predetermined channel is a synchronization channel if the radio network is ~~of the~~ synchronous ~~operating type~~; and the predetermined channel is a broadcast control channel if the radio network is ~~of the~~ asynchronous ~~operating type~~.

291-292. (Canceled)

293. (Currently Amended) The apparatus as recited in claim 287, wherein the operating type of the core network comprises GSM-MAP AND ANSI-41 ~~the core network operating type information includes an ANSI-41 information representing a synchronous operating type core network and a global system for mobile communications application part (GSM-MAP) information representing an asynchronous operating type core network.~~

294. (Previously Presented) The apparatus as recited in claim 289, wherein the message includes a master information block.

295. (Previously Presented) The apparatus as recited in claim 289, wherein the message includes a system information message.

296. (Previously Presented) The apparatus as recited in claim 289, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1 . . . <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

297. (Currently Amended) The apparatus as recited in claim 296, wherein the message includes a public land mobile network identification (PLMN ID) if the radio network is of the asynchronous operating type and the core network operating type information is GSM-MAP information representing an asynchronous type core network.

298. (Previously Presented) The apparatus as recited in claim 289, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1 . . . <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

299. (Currently Amended) A method for interfacing among a terminal, a radio network and a core network connected to the radio network, the method comprising the steps of:

a) recognizing an operating type of the core network on the basis of an information element identifying the operating type of the core network ~~a core network operating type information and core network information~~, to thereby allow the terminal to operate according to the recognized operating type of the core network,
wherein the operating type of the core network comprises global system for mobile communications application part (GSM-MAP) or ANSI-41.

300. (Previously Presented) The method as recited in claim 299, after the step a), further comprising the step b) of storing the recognized operating type of the core network.

301. (Currently Amended) The method as recited in claim 299, wherein the step a) includes the steps of:

a1) receiving a message comprising the information element identifying the operating type of the core network ~~having the core network operating type information and core network information~~ through a predetermined channel;

a2) extracting ~~[[the]]~~ core network operating type information from the received message; and

a3) setting an operating type of the terminal on the basis of the recognized operating type of the core network.

302. (Previously Presented) The method as recited in claim 301, wherein the predetermined channel is a synchronous channel.

303. (Previously Presented) The method as recited in claim 301, wherein the predetermined channel is a broadcast control channel.

304-305. (Canceled)

306. (Currently Amended) The method as recited in claim 299, wherein the operating type of the core network comprises GSM-MAP AND ANSI-41 ~~the core network operating type information includes an ANSI-41 information representing a synchronous operating type core~~

~~network and a global system for mobile communications application part (GSM-MAP)
 information representing an asynchronous operating type core network.~~

307. (Previously Presented) The method as recited in claim 301, wherein the message includes a master information block.

308. (Previously Presented) The method as recited in claim 301, wherein the message includes a system information message.

309. (Previously Presented) The method as recited in claim 301, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1 . . . <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

310. (Previously Presented) The method as recited in claim 301, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1... <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

311. (Currently Amended) An apparatus for interfacing among a terminal, a radio network and a core network connected to the radio network, comprising:

detection means for recognizing an operating type of the core network on the basis of an information element identifying the operating type of the core network ~~a core network operating type information and core network information~~ in a message; and

setting means for setting an operating type of the terminal on the basis of the recognized operating type of the core network₄

wherein the operating type of the core network comprises global system for mobile communications application part (GSM-MAP) or ANSI-41.

312. (Previously Presented) The apparatus as recited in claim 311, further comprising a storage device for storing the recognized operating type of the core network.

313. (Currently Amended) The apparatus as recited in claim 311, wherein the detection means includes:

receiver means for receiving the message having the information element identifying the operating type of the core network ~~core network operating type information~~ through a predetermined channel; and

extraction means for extracting ~~[[the]]~~ core network operating type information from the received message.

314. (Currently Amended) The apparatus as recited in claim 313, wherein the predetermined channel is a synchronization channel if the radio network is ~~of the~~ synchronous ~~operating type~~; and the predetermined channel is a broadcast control channel if the radio network is ~~of the~~ asynchronous ~~operating type~~.

315-316. (Canceled)

317. (Currently Amended) The apparatus as recited in claim 311, wherein the operating type of the core network comprises GSM-MAP AND ANSI-41 ~~the core network operating type information includes an ANSI-41 information representing a synchronous operating type core network and a global system for mobile communications application part (GSM-MAP) information representing an asynchronous operating type core network.~~

318. (Previously Presented) The apparatus as recited in claim 311, wherein the message includes a master information block.

319. (Previously Presented) The apparatus as recited in claim 311, wherein the message includes a system information message.

320. (Previously Presented) The apparatus as recited in claim 311, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1 . . . <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

321. (Currently Amended) The apparatus as recited in claim 311, wherein the message includes a public land mobile network identification (PLMN ID) if the radio network is the asynchronous operating type and the core network operating type information is GSM-MAP information representing an asynchronous type core network.

322. (Previously Presented) The apparatus as recited in claim 311, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCK		1 . . . <MAX SYS INFO BLOCKS COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")